sequence listing
SEQUENCE LISTING

<110> G2M Cancer Drugs AG

Forschungszentrum Karlsruhe GmbH

<120> The use of molecular markers for the preclinical and clinical profiling of inhibitors of enzymes having histone deacetylase activity

<130> molecular markers

<160> 8

<170> PatentIn version 3.1

<210> 1
<211> 488
<212> PRT
<213> homo sapiens

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        50   55   60

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65   70   75   80

Arg Pro Asp Asn Met Ser Glu Tyr Ser Lys Gln Met His Ile Phe Asn
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Val Gly Glu Asp Cys Pro Ala Phe Asp Gly Leu Phe Glu Phe Cys Gln
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Gln Thr Asp Met Ala Val Asn Trp Ala Gly Gly Leu His His Ala Lys
    130   135   140

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Ile Leu Glu Leu Leu Lys Tyr His Gln Arg Val Leu Tyr Ile Asp Ile
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            195   200   205

Thr Gly Asp Leu Arg Asp Ile Gly Ala Gly Lys Gly Lys Tyr Tyr Ala
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Val Asn Phe Pro Met Cys Asp Gly Ile Asp Asp Glu Ser Tyr Gly Gln
225   230   235   240

Ile Phe Lys Pro Ile Ile Ser Lys Val Met Glu Met Tyr Gln Pro Ser
            245   250   255

Ala Val Val Leu Gln Cys Gly Ala Asp Ser Leu Ser Gly Asp Arg Leu
            260   265   270

Gly Cys Phe Asn Leu Thr Val Lys Gly His Ala Lys Cys Val Glu Val
        275   280   285

Val Lys Thr Phe Asn Leu Pro Leu Leu Met Leu Gly Gly Gly Gly Tyr
    290   295   300

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305   310   315   320

Leu Asp Cys Glu Ile Pro Asn Glu Leu Pro Tyr Asn Asp Tyr Phe Glu
            325   330   335

Tyr Phe Gly Pro Asp Phe Lys Leu His Ile Ser Pro Ser Asn Met Thr
            340   345   350

Asn Gln Asn Thr Pro Glu Tyr Met Glu Lys Ile Lys Gln Arg Leu Phe
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385   390   395   400

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              420   425   430

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<211> 183

<212> PRT

<213> homo sapiens

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Gly Val Trp Lys Val Arg Val Asp Leu Pro Asp Lys Tyr Pro Phe Lys
    50   55   60

Ser Pro Ser Ile Gly Phe Met Asn Lys Ile Phe His Pro Asn Ile Asp
65   70   75   80

Glu Ala Ser Gly Thr Val Cys Leu Asp Val Ile Asn Gln Thr Trp Thr
              85   90   95

Ala Leu Tyr Asp Leu Thr Asn Ile Phe Glu Ser Phe Leu Pro Gln Leu
          100   105   110

Leu Ala Tyr Pro Asn Pro Ile Asp Pro Leu Asn Gly Asp Ala Ala Ala

Met Tyr Leu His Arg Pro Glu Glu Tyr Lys Gln Lys Ile Lys Glu Tyr
     130   135   140

Ile Gln Lys Tyr Ala Thr Glu Glu Ala Leu Lys Glu Gln Glu Glu Gly
145   150   155   160

Thr Gly Asp Ser Ser Ser Glu Ser Ser Met Ser Asp Phe Ser Glu Asp
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<212> PRT

<213> homo sapiens

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     35   40   45

Asp Asn Asn Leu Leu Gly Thr Pro Gly Glu Ser Thr Glu Glu Glu Leu
     50   55   60

Leu Arg Arg Leu Gln Gln Ile Lys Glu Gly Pro Pro Pro Gln Asn Ser
65   70   75   80

Asp Glu Asn Arg Gly Gly Asp Ser Ser Asp Asp Val Ser Asn Gly Asp
          85   90   95

Ser Ile Ile Asp Trp Leu Asn Ser Val Arg Gln Thr Gly Asn Thr Thr
          100   105   110

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          115   120   125

Asn Pro Asn Ser Gly Asn Phe Arg Phe Ser Leu Glu Ile Asn Val Tyr
     130   135   140

Ser Asn Asn Gly Ser Gln Asn Ser Glu Asn Glu Asn Glu Pro Ser Ala
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145   150   155   160

Arg Arg Ser Ser Gly Glu Asn Val Glu Asn Asn Ser Gln Arg Gln Val
            165   170   175

Glu Asn Pro Arg Ser Glu Ser Thr Ser Ala Arg Pro Ser Arg Ser Glu
            180   185   190

Arg Asn Ser Thr Glu Ala Leu Thr Glu Val Pro Pro Thr Arg Gly Gln
            195   200   205

Arg Arg Ala Arg Ser Arg Ser Pro Asp His Arg Arg Thr Arg Ala Arg
    210   215   220

Ala Glu Arg Ser Arg Ser Pro Leu His Pro Met Ser Glu Ile Pro Arg
225   230   235   240

Arg Ser His His Ser Ile Ser Ser Gln Thr Phe Glu His Pro Leu Val
            245   250   255

Asn Glu Thr Glu Gly Ser Ser Arg Thr Arg His His Val Thr Leu Arg
            260   265   270

Gln Gln Ile Ser Gly Pro Glu Leu Leu Ser Arg Gly Leu Phe Ala Ala
            275   280   285

Ser Gly Thr Arg Asn Ala Ser Gln Gly Ala Gly Ser Ser Asp Thr Ala
    290   295   300

Ala Ser Gly Glu Ser Thr Gly Ser Gly Gln Arg Pro Pro Thr Ile Val
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Leu Asp Leu Gln Val Arg Arg Val Arg Pro Gly Glu Tyr Arg Gln Arg
            325   330   335

Asp Ser Ile Ala Ser Arg Thr Arg Ser Arg Ser Gln Thr Pro Asn Asn
            340   345   350

Thr Val Thr Tyr Glu Ser Glu Arg Gly Gly Phe Arg Arg Thr Phe Ser
            355   360   365

Arg Ser Glu Arg Ala Gly Val Arg Thr Tyr Val Ser Thr Ile Arg Ile
    370   375   380

Pro Ile Arg Arg Ile Leu Asn Thr Gly Leu Ser Glu Thr Thr Ser Val
385   390   395   400

Ala Ile Gln Thr Met Leu Arg Gln Ile Met Thr Gly Phe Gly Glu Leu
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Ser Tyr Phe Met Tyr Ser Asp Ser Asp Ser Glu Pro Thr Gly Ser Val

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Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Pro Ser Ser Ser
465                 470                 475                     480

Ser Gly Gly Glu Ser Ser Glu Thr Ser Ser Asp Leu Phe Glu Gly Ser
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    530             535                 540

Pro Arg Gly Leu Thr Lys Glu Gln Ile Asp Asn Leu Ala Met Arg Ser
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Tyr Thr Glu Gly Asn Lys Leu Arg Lys Leu Pro Cys Ser His Glu Tyr
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<211> 281

<212> PRT

<213> homo sapiens

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Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr
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Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val
65   70   75   80

Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser
            85   90   95

Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro
            100   105   110

Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly
        115   120   125

Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu
    130   135   140

Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly
145   150   155   160

His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile
            165   170   175

His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe
            180   185   190

Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln
            195   200   205

Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys
    210   215   220

Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
225   230   235   240

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile
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Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala
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<210> 5

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<212> DNA

<213> homo sapiens

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<212> DNA

<213> homo sapiens

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<212> DNA

<213> homo sapiens

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<212> DNA

<213> homo sapiens

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